

**CLOSED  
CITY OF HELENA LANDFILL  
LICENSE NUMBER 90**

**HYDROMETRICS**

**STATISTICAL EVALUATION OF SEPTEMBER  
2000 AND DECEMBER 2000 GROUNDWATER  
QUALITY DATA**

**MARCH 2001**

**IS LOCATED IN THE GROUNDWATER  
MONITORING REPORTS ARCHIVE,  
BOX NUMBER 4**

**RECEIVED 4/11/2001**







**CLOSED  
CITY OF HELENA LANDFILL  
LICENSE NUMBER 90**

**HYDROMETRICS**

**RESULTS OF DECEMBER 2000  
GROUNDWATER SAMPLING**

**MARCH 2001**

**IS LOCATED IN THE GROUNDWATER  
MONITORING REPORTS ARCHIVE,  
BOX NUMBER 4**

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CITY OF HELENA LANDFILL  
LICENSE NUMBER 90**

**HYDROMETRICS**

**STATISTICAL EVALUATION OF MARCH 2000  
AND JUNE 2000 GROUNDWATER QUALITY  
DATA**

**SEPTEMBER 2000**

**IS LOCATED IN THE GROUNDWATER  
MONITORING REPORTS ARCHIVE,  
BOX NUMBER 4**

**RECEIVED 9/21/2000**







**CLOSED  
CITY OF HELENA LANDFILL  
LICENSE NUMBER 90**

**HYDROMETRICS**

**RESULTS OF MARCH 2000 GROUNDWATER  
SAMPLING**

**MAY 2000**

**IS LOCATED IN THE GROUNDWATER  
MONITORING REPORTS ARCHIVE,  
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# THEORY

THEORY OF THE EARTH AND ITS HISTORY  
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May 25, 2000

Ms. Pat Potts  
Montana Department of Environmental Quality  
Permitting and Compliance Division  
WMD / SWP  
P.O. Box 200901  
Helena, MT 59620

Dear Pat,

Enclosed for your review are the proposed monitoring sites and analytical schedule for the June 2000 semiannual groundwater monitoring at the Helena Landfill. There are no changes from the December 1999 sampling schedule. Please call if you have any questions or comments.

Sincerely,

Jodi Bingham, E.I.  
Environmental Engineer/Chemist

c: John Rundquist, City of Helena

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MAY 26 2000

MONTANA  
DEPT. OF ENVIRONMENTAL QUALITY  
COMMUNITY SERVICES BUREAU







**HELENA LANDFILL  
JUNE 2000 SAMPLE SITE AND PARAMETER LIST**

| <b>Site Name</b>                       | <b>Parameter</b>   |
|----------------------------------------|--------------------|
| <b>Monitoring Wells <sup>(1)</sup></b> |                    |
| 83-6                                   | Table 1            |
| HL-94-1                                | Table 1            |
| I-1                                    | Table 1 VOC's only |
| HL-94-2                                | Table 1            |
| HL-90-3                                | Table 1            |
| HL-90-3 (duplicate)                    | Table 1            |
| INF. GALLERY                           | Table 1 VOC's only |
| HL-94-3                                | Table 1            |
| MPC-2                                  | Table 1 VOC's only |
| HL-90-2                                | Table 1            |
| HL-99-3                                | Table 1            |
| EPA-1                                  | Table 1            |
| HL-99-2                                | Table 1            |
| MPC-1                                  | Table 1            |
| MPC-5                                  | Table 1            |
| HL-99-1                                | Table 1            |
| I-4                                    | Table 1 VOC's only |
| HL-90-1                                | Table 1            |
| <b>Residential Wells:</b>              |                    |
| 5                                      | Table 1 VOC's only |
| 18                                     | Table 1 VOC's only |
| 40                                     | Table 1 VOC's only |
| 48                                     | Table 1 VOC's only |
| 52                                     | Table 1 VOC's only |
| 57                                     | Table 1 VOC's only |
| 62                                     | Table 1 VOC's only |
| 84                                     | Table 1 VOC's only |
| 90                                     | Table 1 VOC's only |
| <b>Quality Control:</b>                |                    |
| DI Blank                               | Table 1            |
| Rinsate Blank                          | Table 1            |

(1) Monitoring wells are listed in the order to be sampled.



# THE BRICKS SITE AND PARAMETER LIST

| Parameter          | The Name      |
|--------------------|---------------|
| Table 1            | SHEDDING YARD |
| Table 1            | 11-01-1       |
| Table 1 VOC's only | 11-01-2       |
| Table 1            | 11-01-3       |
| Table 1            | 11-01-4       |
| Table 1            | 11-01-5       |
| Table 1            | 11-01-6       |
| Table 1 VOC's only | 11-01-7       |
| Table 1 VOC's only | 11-01-8       |
| Table 1            | 11-01-9       |
| Table 1            | 11-01-10      |
| Table 1            | 11-01-11      |
| Table 1            | 11-01-12      |
| Table 1            | 11-01-13      |
| Table 1 VOC's only | 11-01-14      |
| Table 1            | 11-01-15      |
| Table 1 VOC's only | 11-01-16      |
| Table 1 VOC's only | 11-01-17      |
| Table 1 VOC's only | 11-01-18      |
| Table 1 VOC's only | 11-01-19      |
| Table 1 VOC's only | 11-01-20      |
| Table 1 VOC's only | 11-01-21      |
| Table 1 VOC's only | 11-01-22      |
| Table 1 VOC's only | 11-01-23      |
| Table 1 VOC's only | 11-01-24      |
| Table 1 VOC's only | 11-01-25      |
| Table 1 VOC's only | 11-01-26      |
| Table 1 VOC's only | 11-01-27      |
| Table 1 VOC's only | 11-01-28      |
| Table 1 VOC's only | 11-01-29      |
| Table 1 VOC's only | 11-01-30      |
| Table 1            | 11-01-31      |
| Table 1            | 11-01-32      |
| Table 1            | 11-01-33      |
| Table 1            | 11-01-34      |
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| Table 1            | 11-01-88      |
| Table 1            | 11-01-89      |
| Table 1            | 11-01-90      |
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| Table 1            | 11-01-92      |
| Table 1            | 11-01-93      |
| Table 1            | 11-01-94      |
| Table 1            | 11-01-95      |
| Table 1            | 11-01-96      |
| Table 1            | 11-01-97      |
| Table 1            | 11-01-98      |
| Table 1            | 11-01-99      |
| Table 1            | 11-01-100     |

(1) Shaded cells indicate parameters not analyzed.





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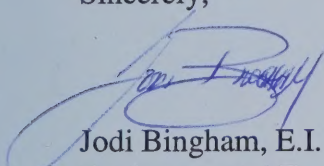
March 9, 2000

Ms. Pat Potts  
Montana Department of Environmental Quality  
Permitting and Compliance Division  
WMD / SWP  
P.O. Box 200901  
Helena, MT 59620

Dear Pat,

Enclosed for your review are the proposed monitoring sites and analytical schedule for the September 1999 quarterly groundwater monitoring at the Helena Landfill. Well 5 is being sampled as part of the City's Action Plan for tetrachloroethene (PCE) in downgradient domestic wells. Please call if you have any questions or comments.

Sincerely,

  
Jodi Bingham, E.I.  
Environmental Engineer/Chemist

c: John Rundquist, City of Helena

*Lewis & Clark*  
County *City of Helena #90*  
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Closure *(inactive)* Liner  
Final Assur Methane  
GW Corr Meas O & M  
GW Monitoring Run-On  
GW Reports  
Inspections  
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**HELENA LANDFILL  
MARCH 2000 SAMPLE SITE AND PARAMETER LIST**

| Site Name                       | Parameter          |
|---------------------------------|--------------------|
| Monitoring Wells <sup>(1)</sup> |                    |
| HL-99-3                         | Table 1 VOC's only |
| HL-99-1                         | Table 1 VOC's only |
| HL-90-1                         | Table 1 VOC's only |
| MPC-1                           | Table 1 VOC's only |
| 5                               | Table 1 VOC's only |

(1) Wells are listed in the order to be sampled.



